

CLAIMS

- 5 1. A method comprises the steps of pumping a chemical composition into a production interval and into surrounding formation ; said composition being capable of forming, firstly, a physically stabilized structure and, secondly, a chemically stabilized structure, wherein said physically stabilized structure being dissolvable by hydrocarbon containing fluids; letting said composition form said physically stabilized structure within the formation surrounding said production interval;; changing pressure condition in said production interval such that the fluid flow within the surrounding formation is reversed; letting thereby in some portions of the formation hydrocarbon containing fluids dissolve said physically stabilized structure and chemically stabilize said structure in the remaining portions by a cross-linking reaction.
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- 20 2. The method of claim 1, wherein the time required to form the physically stabilized structure after injection is significantly shorter than the time required to form a chemically stabilized structure.
- 25 3. The method of claim 1, wherein the time required to form the physically stabilized structure is less than 24 hours after injection.
- 30 4. The method of claim 1, wherein the time required to form the chemically stabilized structure is more than 24 hours after injection.
- 35 5. The method of claim 1, wherein the composition comprises hydrophobically modified water-soluble polymers, surfactants, viscoelastic surfactants, or mixtures thereof.

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